Print Date: Aug 28th 2019

Certificate of Analysis

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Product Name: **UNC 926 hydrochloride** **Catalog No.: 4516** **Batch No.: 1**

CAS Number: 1782573-49-2

IUPAC Name: (3-Bromophenyl)[4-(1-prrolidinyl)-1-piperidinyl]methanone hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{16}H_{21}BrN_2O.HCl.½H_2O$

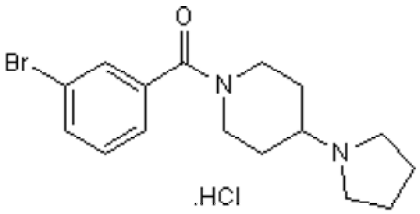
Batch Molecular Weight: 382.73

Physical Appearance: White solid

Solubility: water to 100 mM
DMSO to 100 mM
ethanol to 100 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.5% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	50.21	6.05	7.32
Found	50.32	6.05	7.38

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Product Information

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IUPAC Name: (3-Bromophenyl)[4-(1-prrolidinyl)-1-piperidinyl]methanone hydrochloride

Description:

Methyl-lysine (Kme) reader domain inhibitor; binds to the MBT domain of the L3MBTL1 protein (K_d = 3.9 µM). Selectively inhibits the $L3MBTL1_{3XMBT}$-H4K20me1 interaction in a peptide pull down assay.

Physical and Chemical Properties:

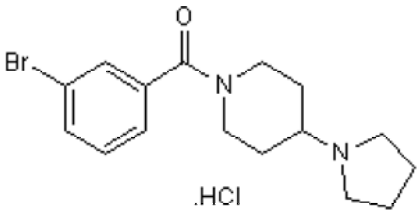
Batch Molecular Formula: $C_{16}H_{21}BrN_2O.HCl.½H_2O$

Batch Molecular Weight: 382.73

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

water to 100 mM
DMSO to 100 mM
ethanol to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Herold *et al* (2012) Structure-activity relationships of methyl-lysine reader antagonists. Med.Chem.Comm ***3*** 45.